

ABSTRACT OF THE DISCLOSURE

The LC-VCO is provided with two negative resistance units and an LC circuit unit. The LC circuit unit has two 5 output terminals. An inductor is connected between the output terminals, and a series of variable capacitors is connected in parallel with the inductor. In the LC circuit unit, a variable capacitor is connected between one of the output terminals and a node. Another variable capacitor is 10 connected between the other output terminal and another node. Switches are connected between the nodes and a ground potential line, respectively, and between the nodes and a power supply potential line, respectively.